Federal Reserve Bank of Boston Case Study

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Federal Reserve Bank of Boston



- Designed 1972, completed 1976
- 33 story tower; 5 story low-rise
- Unique support functions
- 1,130,000 square feet
- Steel construction with glass & aluminum facades
- Steam heating
- Electric powered chiller cooling

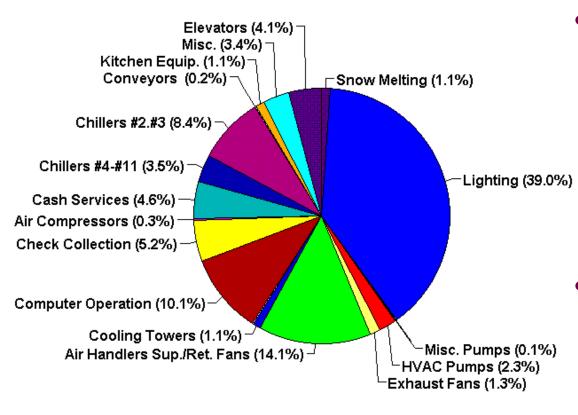
Federal Reserve Bank of Boston Project Objectives

- Energy efficiency, utility cost reduction
- Facility improvement, lighting and mechanical systems
- Environmental management, CFC compliance

Federal Reserve Bank of Boston Owner's Agent: Energy Investment, Inc.

- Integrated energy improvement program
- Chiller replacement program
 - chiller specification and selection
 - system design
 - competitive bidding
 - construction review

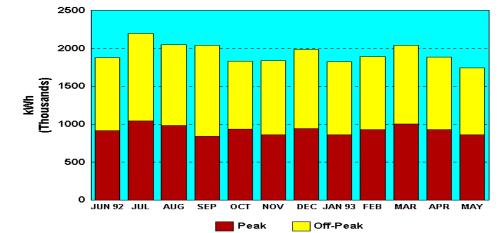
Federal Reserve Bank of Boston Electric End-Use



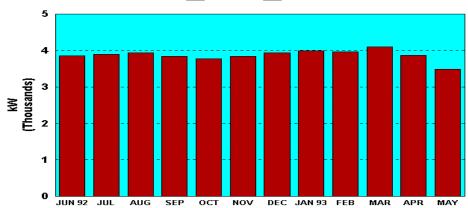
General office and banking

- 5 am 6 pm weekdays
- 7 am 1 pm weekends
- some 24 hour operation
- 24,000,000 kWh annual electricity consumption

Federal Reserve Bank of Boston Electricity Use



Monthly electricity consumption
1992-93



- Monthly electricity demand 1992-93
 - relatively flat demand

Federal Reserve Bank of Boston Natural Gas and Steam Use

